

ABSTRACT

The present invention relates to a device for non-contact or low-contact conveying of structural elements (1) or materials along a conveying track. Furthermore, the invention relates to a device for non-contact or low-contact handling and storing of structural elements (1) or materials. A device for generating a floating state by sound waves is provided, which comprises the following features:

- a rigid support structure (2) having a support structure top surface (3) for absorbing forces generated by the gravitation or acceleration of the levitating object and perpendicularly acting on the support structure top surface (3),
- a thin oscillatory element (4) arranged in parallel to the support structure top surface (3),
- vibration generating means (5) for making the thin oscillatory element 4 vibrating and levitating above the support structure top surface (3) so that object (1) is levitating above the thin oscillatory element (4) without contacting it.